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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,271	04/14/2004	Baoxin Li	KLR 7146.0217	8109

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EXAMINER

KOVAL, MELISSA J

ART UNIT	PAPER NUMBER
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2851

DATE MAILED: 04/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/825,271

Applicant(s)

LI, BAOXIN

Examiner

Melissa J. Koval

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on February 17, 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 28-32 is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,8-12,14-16 and 18-20 is/are rejected.
- 7) ☒ Claim(s) 3,7,13 and 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on February 17, 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Application Number 10/770,591 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4-6, 8-12, 14-16, and 18-20 are rejected under 35

U.S.C. 102(e) as being anticipated by Kimura et al. U.S. Patent 6,974,217 B2.

See Figures 1, 2 through 6, and 11, for example.

Claim 1 sets forth: "A method for adjusting keystone in a projector, comprising:

(a) using an imaging device to sense an indication of the height of a projection screen and the width of said projection screen (G-sensor 21);

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(b) determining without user input an aspect ratio for said projection screen (See column 11, lines 62 through 67, and column 12, lines 1 through 3);

(c) determining a transformation to adjust the keystone of an image projected from said projector based upon said aspect ratio;

(d) modifying said image projected from said projector in accordance with said transformation;

(e) projecting said modified image from said projector." See column 6, lines 58 through 57 and column 7, lines 1 through 59.

With respect to claim 2, see projector 10 with light valve 17.

Claim 4 sets forth: "The method of claim 1 wherein said determining said aspect ratio is based upon a plurality of height measurements." See Figures 4 through 6 with respect to elevation angle. Furthermore see column 6, lines 14 through 57. Claims 5 and 6 are rejected for the same reasons. At least one aspect ratio is determined.

Claim 8 sets forth: "The method of claim 1 wherein said imaging device is integral with said projector." See projector 10 with light valve 17.

Claim 9 sets forth: "A method for sensing a projection screen with a projector, comprising:

(a) using an imaging device to sense an indication of the height of a projection screen and the width of said projection screen;

(b) determining without user input an aspect ratio for said projection screen;

(c) projecting an image from said projector onto said projection screen."

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Claim 9 is rejected for the same reasons already applied to claim 1. Note that column 7, line 53, includes the phrase “without a specified operation by the user.”

Claims 10 through 12 and 14 through 16 are rejected for the same reasons already applied to rejected claims 1, 4 through 6, and 8 above.

Claim 18 sets forth: “A method for adjusting keystoneing in a projector, comprising:

(a) using an imaging device to sense the boundaries of a projection screen;

(b) decreasing the scale of an image to be projected on said projection screen based on sensed said boundaries;

(c) determining without user input a transformation to adjust the keystoneing of an image projected from said projector based upon said projection screen;

(d) modifying said image projected from said projector in accordance with said transformation;

projecting said modified image from said projector.”

Claim 18 is rejected for the reasons already given in the rejection of claims 1, 4-6, 8-12, and 14-16 above. Furthermore refer to zooming module 20 with respect to scaling issues.

Claims 19 through 27 are rejected for the same reasons given with respect to claims 4-6, 8-12, and 14-16 and 18 above. With respect to claims 25 through 27 also see Figure 2.

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Allowable Subject Matter

Claims 28 through 32 are allowed.

Claims 3, 7, 13 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Each and every limitation of the dependent claims is required to patentably distinguish those claims over the prior art of record. Kimura et al. '217 B2 teach only one aspect ratio, i.e. 4:3, rather than three specific aspect ratios as in claims 7 and 17 or a set of aspect ratios as in claims 3 and 13.

With respect to claims 28 through 32, the prior art neither shows nor suggests all of the elements in combination and particularly the concept of sensing and modification based on "boundary color".

Response to Arguments

Applicant's arguments with respect to claims 1-32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

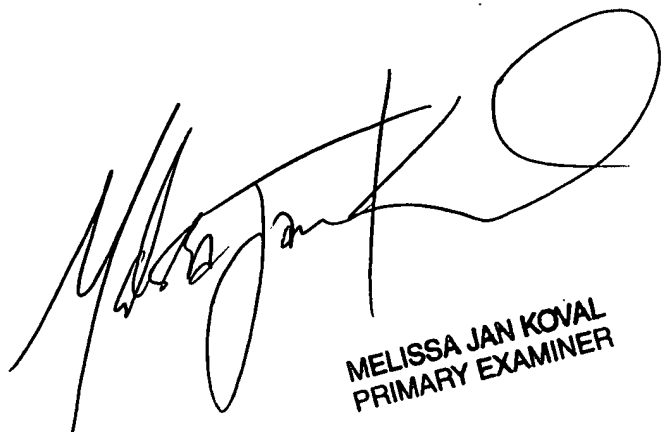
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J. Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571)272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melissa Jan Koval
Primary Examiner
Art Unit 2851
MJK



MELISSA JAN KOVAL
PRIMARY EXAMINER